

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/13061

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ A61K45/00, 31/198, 31/205, 39/395, A61P35/00, 43/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A61K45/00, 31/198, 31/205, 39/395, A61P35/00, 43/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAPLUS (STN), MEDLINE (STN), EMBASE (STN), BIOSIS (STN), REGISTRY (STN), JICST (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	BODE, Barrie P. et al., Role of glutamine transporter ATB ⁰ in human hepatic and colon cancer cell growth, FASEB Journal, 2001, Vol.15, No.4, pp.A435; particularly, 395.10	1-4,6-12 5
X Y	FUCHS, Bryan Christopher et al., Inducible antisense inhibition of glutamine transporter ATB ⁰ expression arrests growth in human hepatoma cells., FASEB Journal, March 2002, Vol.16, No.4, pp.A456, particularly, 388.8	1-4,6-12 5

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
13 January, 2004 (13.01.04)Date of mailing of the international search report
03 February, 2004 (03.02.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	Database Biosis on STN, BioScience Information Service (Philadelphia, PA, USA), No.PREV200200408849, CHEN, Seiyu et al., Evidences of human stanniocalcin 1 and amino acid transporter ATB ⁰⁺ as potential diagnostic marker for non-small cell lung cancer., Proceedings of the American Association for Cancer Research Annual Meeting, March 2002, Vol.43, pages 518 to 519	1-4, 6-12 5
Y	HATANAKA, T. et al., A study of the substrate specificity of Na ⁺ -dependent and Na ⁺ -independent neutral amino acid transport systems in dog intestinal brush-border membrane vesicles using L-alanine analogues, J.Pharm.Pharmacol., April 2002, page 54, No.4, pp.549-54; particularly, abstract	5
Y	HATANAKA, T. et al., Transport of N ^G -nitro-L-arginine across intestinal brush border membranes by Na ⁺ -dependent and Na ⁺ -independent amino acid transporters, Pharm.Res., 1999, Vol.16, No.11, pp.1770-4; particularly, abstract	5
Y	HATANAKA, Takehiro et al., Na ⁺ - and Cl ⁻ -coupled active transport of nitric oxide synthase inhibitors via amino acid transport system B ⁰⁺ , Journal of Clinical Investigation, 2001, Vol.107, No.8, pages 1035 to 1043; particularly, abstract	5
Y	GANAPATHY, Vadivel et al., Na ⁺ - and Cl ⁻ -coupled transport of carnitine by the amino acid transporter ATB ⁰⁺ , FASEB Journal, 2001, Vol.15, No.4, pp.A435; particularly, 395.11	5
Y	NAKANISHI, Takeo et al., Na ⁺ - and Cl ⁻ -coupled active transport of carnitine by the amino acid transporter ATB ⁰⁺ from mouse colon expressed in HRPE cells and Xenopus oocytes, Journal of Physiology, 2001, Vol.532, No.2, pages 297 to 304; particularly, abstract	5
Y	HATANAKA, Takahiro et al., Transport of D-Serine via the Amino Acid Transporter ATB ⁰⁺ Expressed in the Colon, Biochemical and Biophysical Research Communications, February 2002, Vol.291, No.2, particularly, abstract	5
P,A	WO 02/083060 A2 (MEDICAL COLLEGE OF GEORGIA RESEARCH INSTITUTE, INC.), 24 October, 2002 (24.10.02), & WO 02/083060 A3	1-12